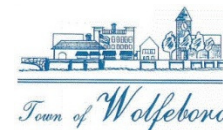


# Wolfeboro 29615

## NH Route 28 Improvements

Project Advisory Committee  
Meeting #2

July 8, 2021



# Agenda

- Welcome and Introductions
- Public Involvement Plan Review
- Approval of PAC Kick-off Meeting Minutes
- Project Progress
- Existing Conditions & Interim Measures
- Purpose & Need
- Alternative Considerations & Rating Criteria
- Schedule Update & Next Steps

# Welcome and Introductions

- Town of Wolfeboro
  - Dave Ford, PE,  
Director of Public Works
  - Tavis Austin,  
Director of Planning and Development
- NHDOT
  - Jason Ayotte, PE,  
Project Manager
  - Leah Savage, PE,  
Group Leader
  - Jon Hebert, PE,  
Senior Project Engineer
  - Rebecca Martin,  
Senior Environmental Manager



# Public Involvement Plan

- Establishes the Project Advisory Committee
- Identifies Roles & Responsibilities
- Explains Project Process & Design Approach
- Institutes Communication Methods & Schedule

NH ROUTE 28 – Wolfeboro, NH

Project #29615

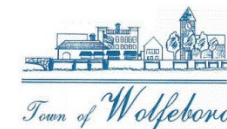
Public Involvement Plan



Draft: December 5, 2019









Adopted:

Revised:



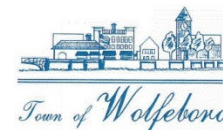


# PAC Kick-off Meeting & Minutes

<b>Project:</b>	<b>Wolfeboro 29615</b>	Status: Design
<b>Scope of Work:</b>	Safety and mobility improvements on Route 28 from the Alton/Wolfeboro Town line to Route 109 (Pickering Corner)	
<b>Contact:</b>	Jason M. Ayotte, P.E. <a href="mailto:Jason.M.Ayotte@dot.nh.gov">Jason.M.Ayotte@dot.nh.gov</a>  Telephone: (603) 271-3921	
<b>Available Files:</b>	<ul style="list-style-type: none"> <li>‣ <a href="#">Location Map</a> </li> <li>‣ <a href="#">Route 28 Corridor Preliminary Project Planning Report</a> </li> <li>‣ <a href="#">Project Roll Plan</a> </li> <li>‣ <a href="#">Draft Public Involvement Plan</a> </li> </ul>	
<b>Project Advisory Committee Meeting #2</b> Postponed until further notice Wolfeboro Town Hall	<ul style="list-style-type: none"> <li>‣ <a href="#">Agenda</a> </li> </ul>	
<b>Project Advisory Committee Meeting #1</b> December 5, 2019 Wolfeboro Town Hall	<ul style="list-style-type: none"> <li>‣ <a href="#">Presentation</a> </li> <li>‣ <a href="#">Meeting minutes - Draft</a> </li> </ul>	

<https://www.nh.gov/dot/projects/wolfeboro29615/index.htm>

<https://www.wolfeboronh.us/planning-development/links/2024-nhdot-route-28-project-materials>

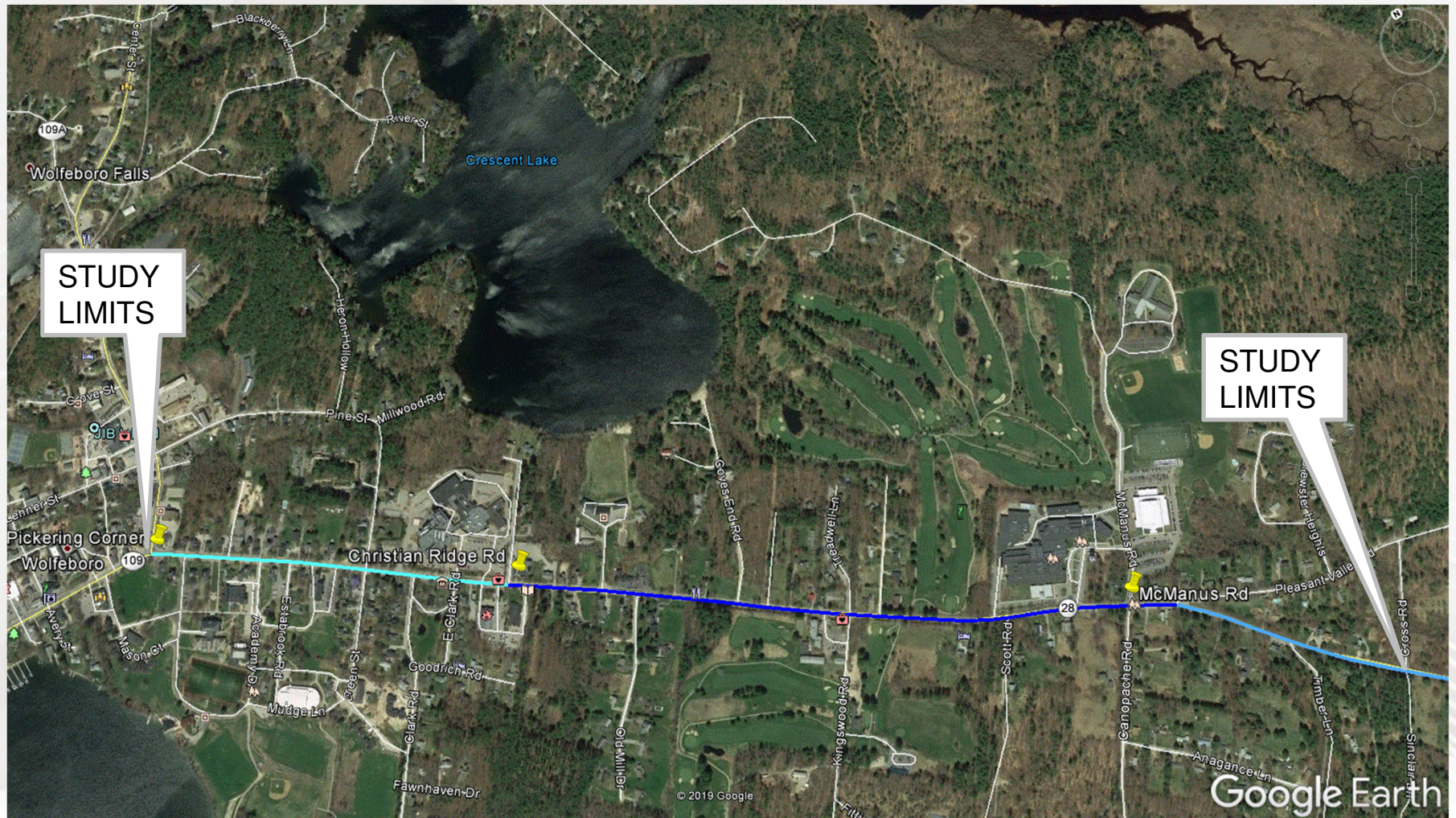


# Anticipated PAC Schedule

Year	Month/Time	Description
2019	December	Project Advisory Kick-Off & Introduction
2021	July – December	Existing Conditions, Environmental Resources & Design Constraints  Develop & Evaluate Design Alternatives
2022	January – December	Evaluate Design Alternatives, Environmental Resources, & Impacts (Additional Meetings As Required)  Review Selected Alternative  Meetings prior to Public Informational Meetings & Public Hearing
2023-2024	Project Final Design Decisions	PAC Meeting Scheduled as necessary to decide on Final Design details (Lighting, Landscaping, etc.)
2025	Construction Updates	PAC Meetings Schedule as necessary for Major Milestones or Construction Notices



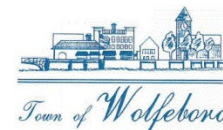
# Wolfeboro 29615 – NH Route 28



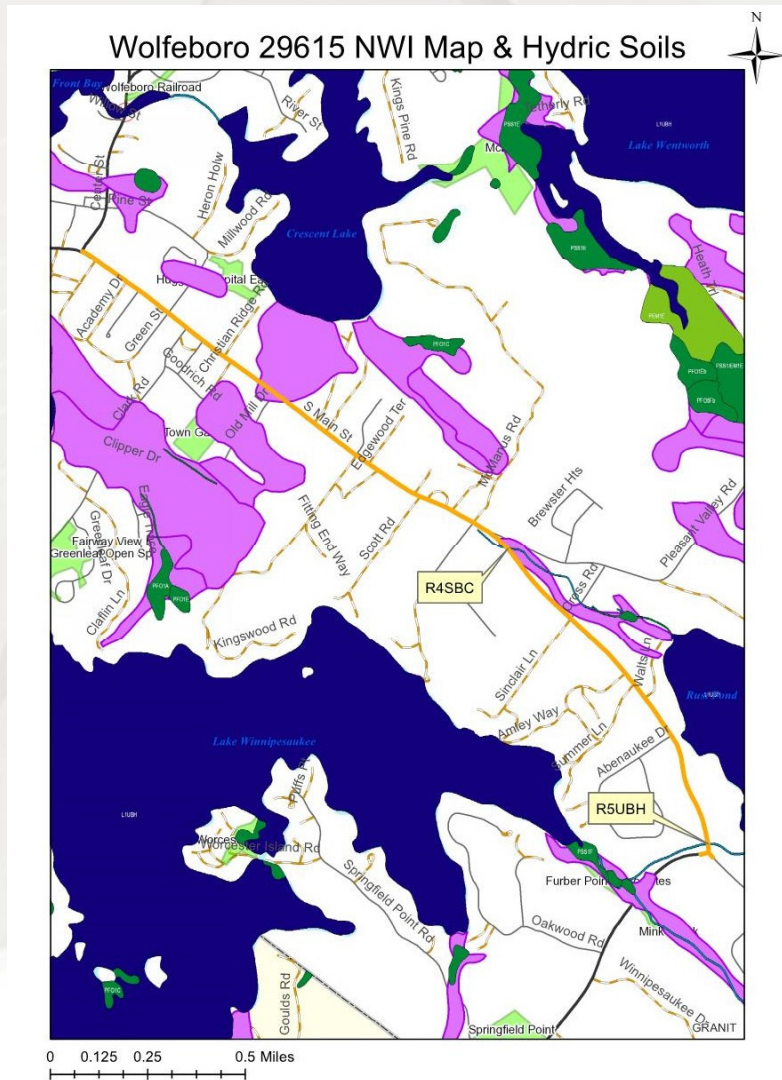


# Project Progress – Project Scope

- Limited Project Length due to State Ten Year Plan Funding Constraints (\$7.3M in 2019 Construction Dollars)
- Focus on Segment 3 & 4 Improvements between Pleasant Valley Road and Pickering Corner based on Town Planning Report
- Total Cost of Segment 3 & 4 Estimated \$10.6M
- Project Improvements are shaped by PAC & Public Input



# Project Progress – Environmental



- Wetland Delineation & Water Quality





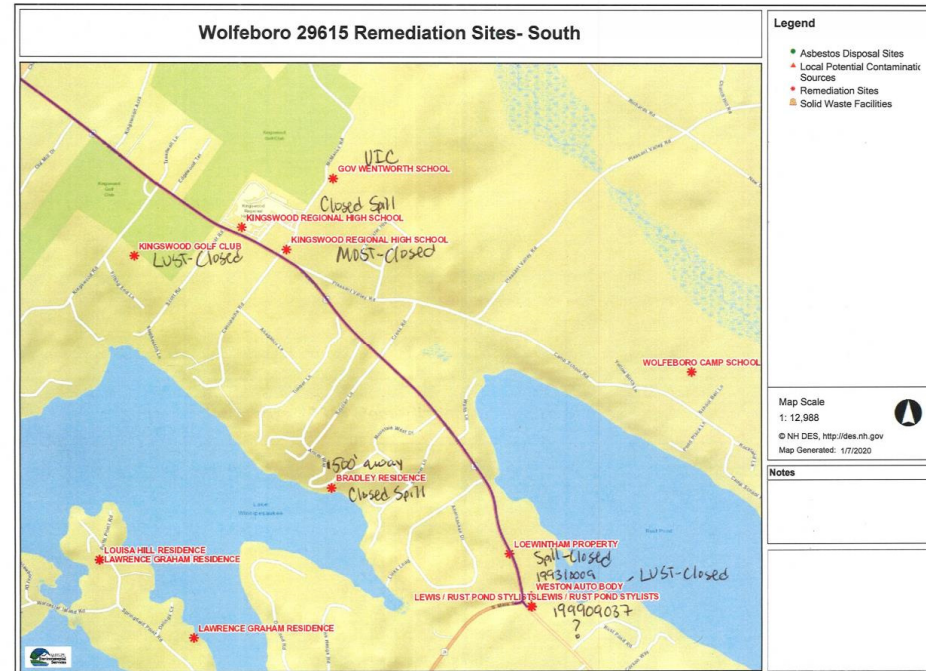
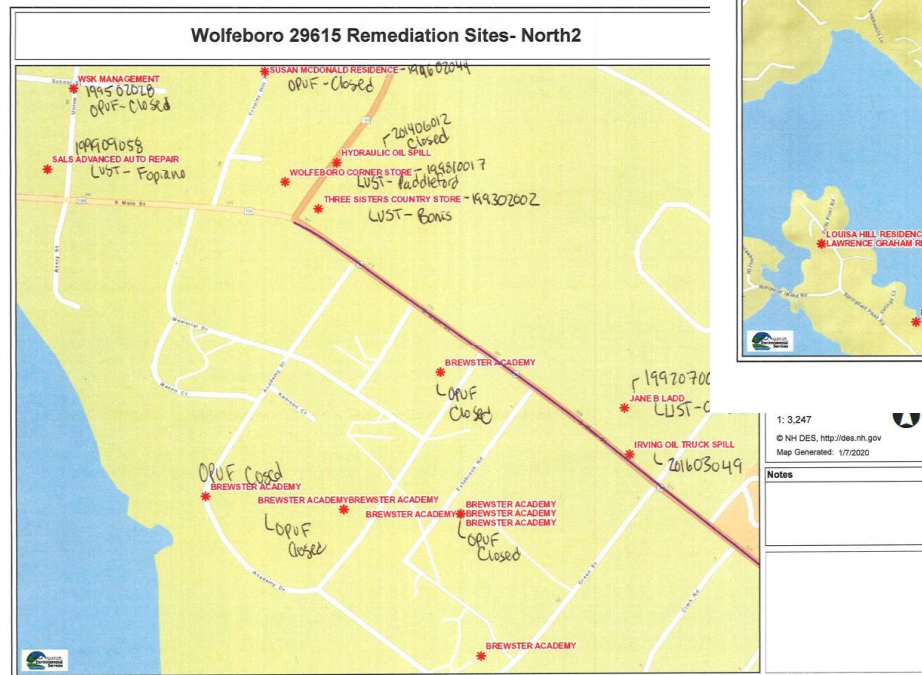
[illegible]

- 
- Location: Rust Pond Boat Access

# Project Progress – Environmental

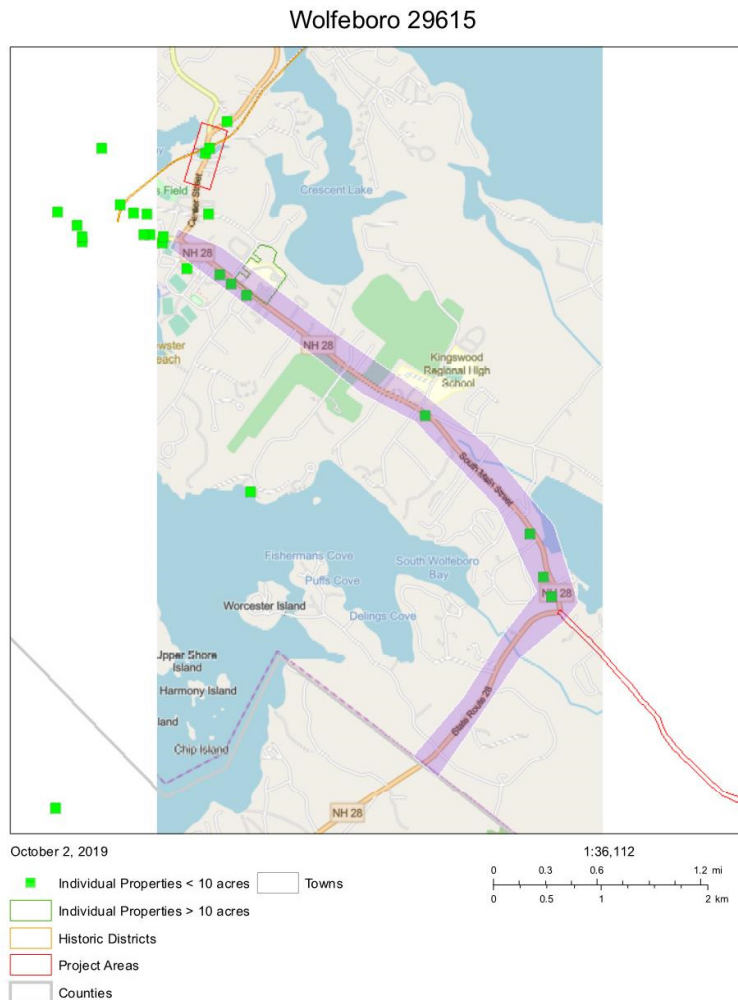
## Contamination

- LUST – Leaking Underground Storage Tank





# Project Progress – Environmental



## Cultural Resources

- Clark House
- South Wolfeboro School House
- 2 Residences
- Huggins Hospital
- Archaeological Resources

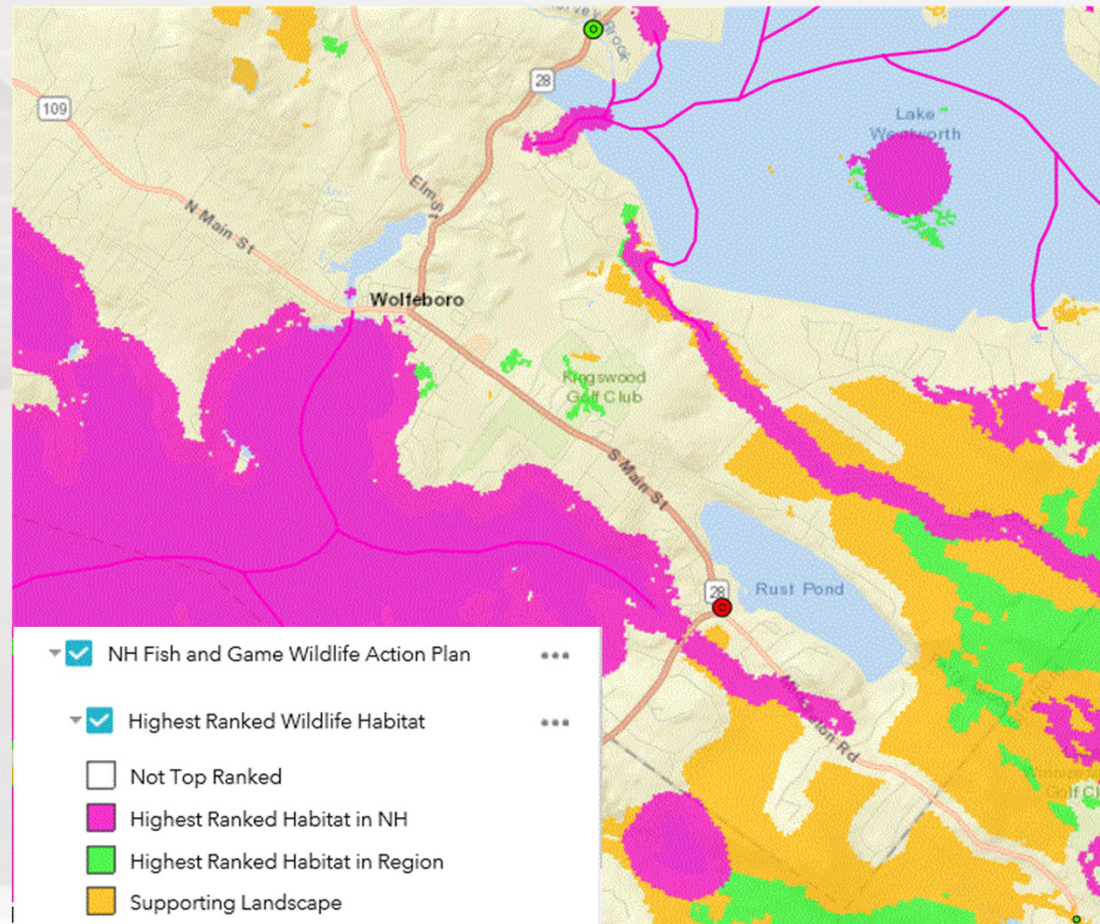


Location: Clark House Museum

# Project Progress – Environmental

## Wildlife & Habitat

- Species of Concern:
  - Northern Long-eared Bat
  - Small Whorled Pogonia (*Isotria medeoloides*)





# Project Progress – Environmental

## Next Steps:

- Continue Environmental Data Collection
  - Bureau of Environment January 8, 2020 Letter
  - NHDOT Natural Resource Meetings
- Cultural Resources
  - Communication with Department of Historic Resources
  - Stakeholders interested in participating may contact:

Jamie Sikora

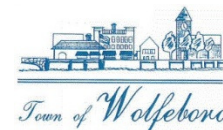
Environmental Program Manager

Federal Highway Administration

NH Division Office

53 Pleasant Street, Suite 2200 Concord, NH 03301

[Jamie.Sikora@fhwa.dot.gov](mailto:Jamie.Sikora@fhwa.dot.gov)





- Completed Boundary Survey (Right-of-Way) & Existing Topographic Survey
- Field Reviews



# Project Progress – Traffic

- Traffic Data Collection & Crash Data



Location: NH 28/109 Center Street Looking North

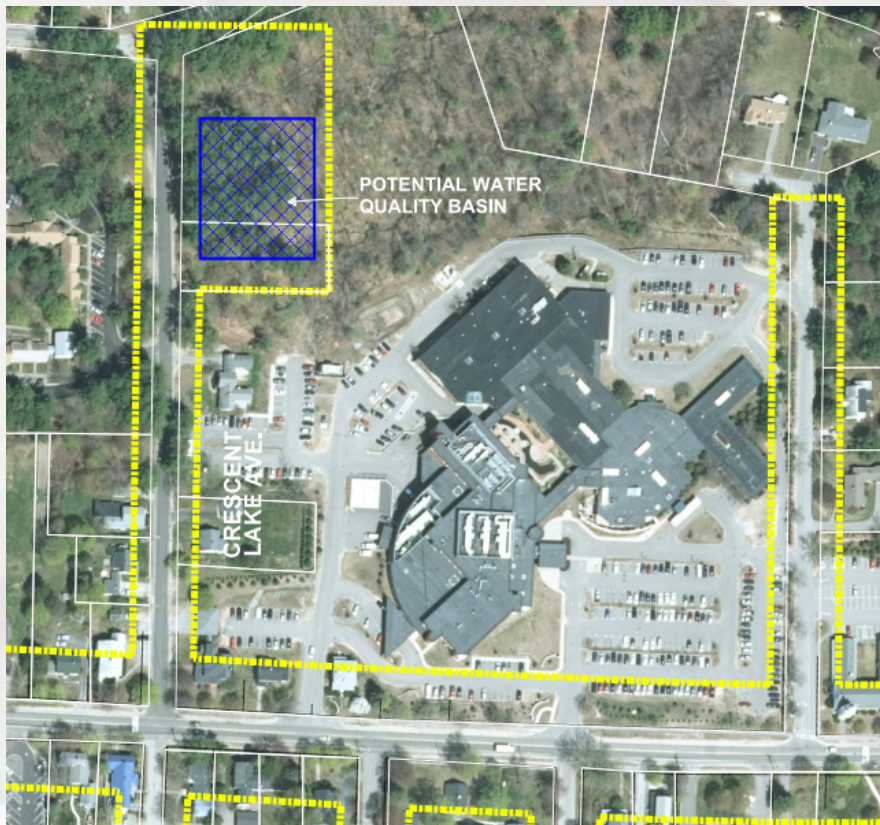


NH 28 - Wolfeboro  
Project: 29615  
Not to Scale





# Project Progress – Drainage & Water Quality



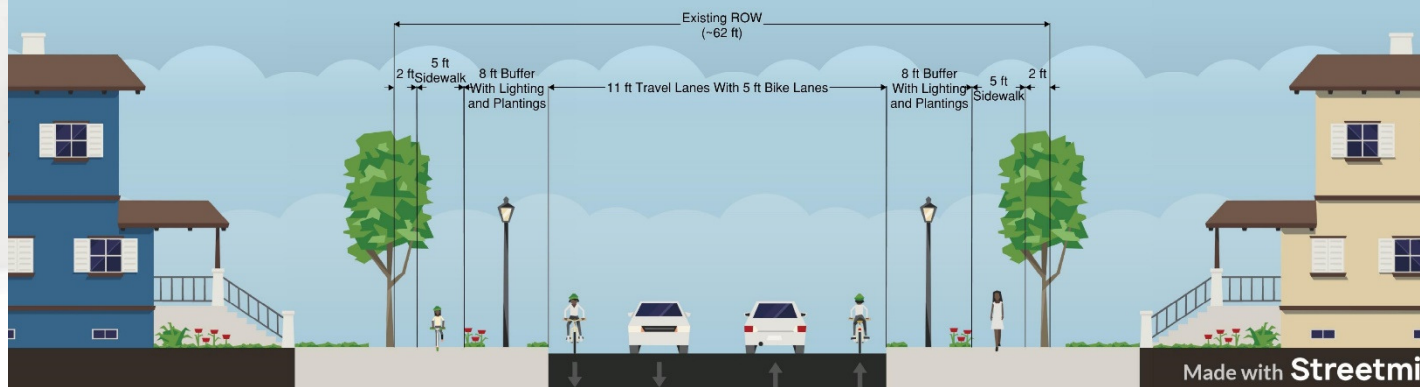
# Project Progress – Roadway Design

- Existing Tree Inventory
- Cross or Typical Section Review
- Horizontal & Vertical Alignment
- Pavement Section



Location: NH 28/Brewster Academy Looking South

## NH 28, Pickering Corner to Crescent Lake Ave: Proposed



Made with Streetmix





Questions?





# Existing Conditions & Interim Measures

## 2020 in Review

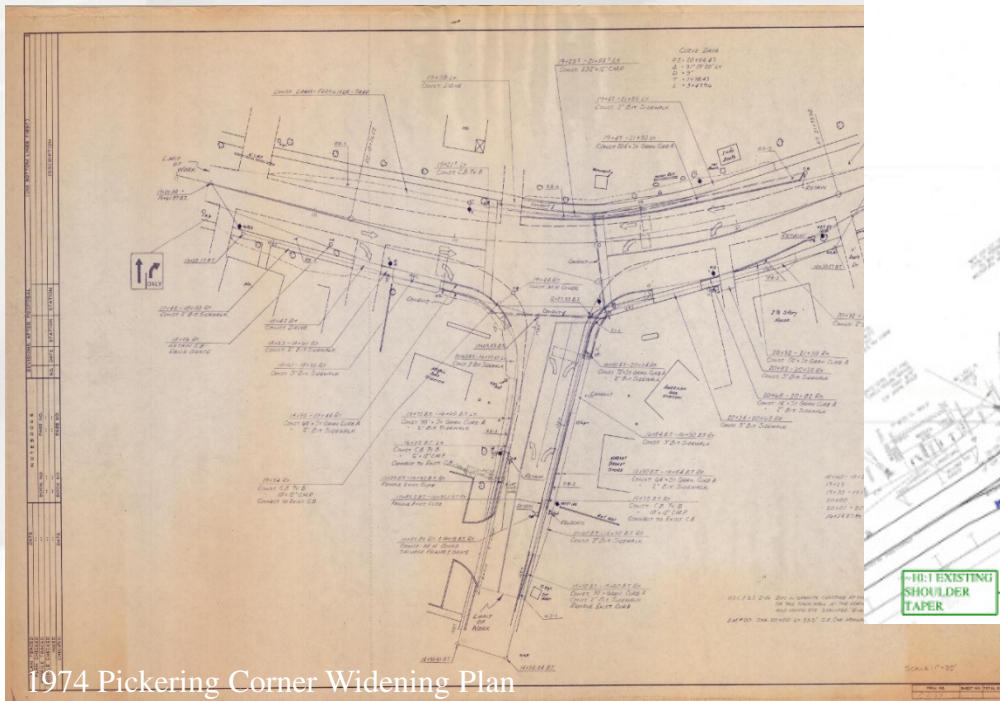
- NH 28 Overlay
- Speed Study & Requests by Town
  - Speed Limit Signs
  - Radar Speed Notification & Enforcement
- Pedestrian Crossings Review
  - Brewster Academy RRFB
  - Golf Course
  - Library & Public Safety Complex



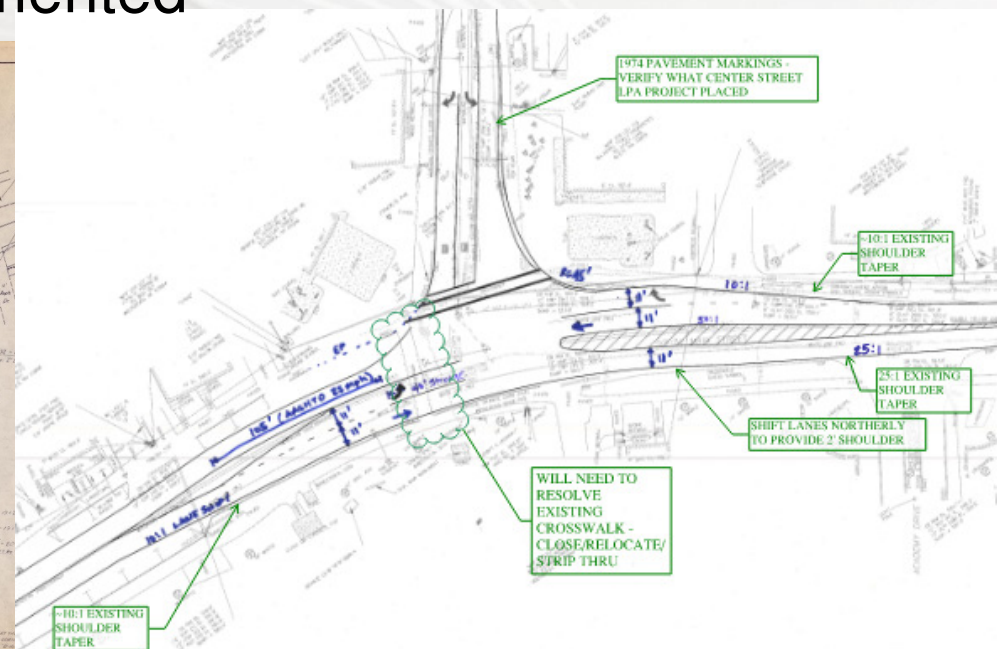
# Existing Conditions & Interim Measures

## NH 28 Overlay

- Upgraded Curb Ramps & Paver Shim Overlay
- Team Evaluated Pickering Corner Pavement Markings and not implemented



1974 Pickering Corner Widening Plan



# Existing Conditions & Interim Measures

## NH Route 28 Speed Study

NH ROUTE 28 SPEED DATA & RECOMMENDATIONS				
Segment description	2019 SL	Ave. Speed	85 <sup>th</sup> percentile	2020 SL
South of Coves End Road	40 mph	37 mph	42 mph	35 mph
South of Pleasant Valley Road	40 mph	41 mph	46 mph	35 mph
South of Walt's Lane	30 mph	36 mph	40 mph	35 mph
South of Middleton Road	30 mph	44 mph	49 mph	35 mph

## NH Route 28 Speed Study

- Bureau of Traffic Recommendations
- Town suggested Interim Measures
  - Trailer Mounted Radar Feedback Speed Limit Signs Purchased
  - Radar Speed Notification & Enforcement by Town





# Existing Conditions & Interim Measures

## Pedestrian Crossings

- Center Street RRFB
- Brewster RRFB installed 2020



Location: Center Street Looking South



Location: Brewster Academy Crossing (2020)



Location: Brewster Academy Crossing (2019)



# Existing Conditions & Interim Measures

## Pedestrian Crossings

- Uncontrolled Crossings
  - Golf Course
  - Library
  - Public Safety Complex
- Town Pedestrian Study
- NHDOT General Guidance
  - Crosswalk criteria evolving based on current research and best practices
  - Traffic volumes, traffic speeds, and number of lanes given increased consideration
  - Advance lighting of marked crosswalks required for all new locations and recommended for all mid-block locations
  - Previously rejected crosswalk locations may be considered with advanced warning systems
  - All crosswalks along a segment should be treated alike





# Questions?

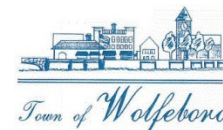
Location: Crescent Lake Motel; Courtesy [www.familyvacationcritic.com](http://www.familyvacationcritic.com)



# Purpose & Need

## National Environmental Policy Act (NEPA)

- “Purpose” - defines the project need and goal
- “Need” - defines transportation issues and problem
- Purpose and Need drives the process for alternatives consideration & required for natural & cultural resource reviews
  - Justifies why improvement must be implemented;
  - As comprehensive and specific as possible; and
  - Reexamined and updated as appropriate throughout the project development process.
  - Used to compare effectiveness of Build Alternatives against the No-Build Alternative.
  - An alternative that does not achieve a primary purpose would be eliminated.



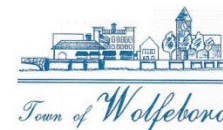


# Purpose & Need

## ✓ 2018 Planning Recommendations Problem Statement:

*“Route 28 Corridor from the Wolfeboro/Alton Town Line thru Wolfeboro Falls (aka South Main Street, Pickering Corner and Center Street) is subject to commuter and seasonal congestion caused by vehicle numbers in excess of the road’s capacity with no viable by-pass. Conflicts between pedestrians, bicyclists and vehicles compromise the safety and efficiency of the corridor. Existing driveway cuts, buildings, sightlines and topography further complicate safety and transportation needs. The Corridor as it presently exists does not balance community goals from the Town’s Master Plan, including:*

- *Friendly pedestrian ways;*
- *Maintenance of the rural, historic and scenic character;*
- *Fostering of economic and social vitality; and*
- *Sustaining a high quality of life for residents, visitors, business owners and commuters.”*



# Purpose & Need

## ✓ 2018 Planning Recommendations Vision Statement:

*"Wolfeboro's gateway to its village core will be enhanced by the Route 28 corridor, which will provide access to downtown areas while moving traffic through in a slow, steady and efficient manner, while providing safe, friendly and aesthetically pleasing walk ways and bike paths for pedestrians. People will feel comfortable using the corridor which will promote:*

- *The town's social life,*
- *Recreational offerings, historic and natural resource features and*
- *Economic vitality while balancing the*
- *Needs/interests of residents, businesses and visitors.*
- *It will become a town priority to rebuild and maintain this important transportation asset, while considering:*
  - *Safety,*
  - *Environment,*
  - *Property rights,*
  - *Natural and historically significant resources,*
  - *Scenic views and*
  - *Economic impacts."*



Location: NH 28 Looking North (Brewster)



# Purpose & Need

*The purpose of the project is to improve NH Route 28 between Pleasant Valley Road and NH Route 109 (Pickering Corner):*

- **Pavement Condition;** *no major improvements have been made to NH Route 28 since the 1930s. As a result, the pavement is deteriorating at the edge of travel way, and maintenance is required routinely at the limits of the concrete slab constructed.*
- **Drainage;** *the existing drainage systems and flat grading creates maintenance and water quality concerns. For example, flat grades creating safety concerns due to ponding and inadequate collection deteriorates sidewalks, adding maintenance responsibility, and degrades water quality.*
- **Mobility;** *the existing pavement width of 24' is creating conflicts between cars, bicyclists and pedestrians because it is not wide enough to accommodate the demand for multiple modes of transportation in this corridor. NH Route 28 is a priority identified within the regional and Statewide Pedestrian and Bicycle Transportation Plans. The bicyclist stress and pedestrian conflicts were identified at the Corridor Study Public Information Meetings.*
- **Safety;** *the existing condition levels of service and accessibility at intersections is poor. The safety concerns include speed through the corridor, as well as pedestrian conflicts at intersections and uncontrolled crossings concerns raised during the Corridor Study Public Information Meetings.*



# Alternative Considerations & Rating Criteria

## Examples:

Criteria:	Pedestrian Safety	Costs	Property Impacts & ROW	Traffic Calming	Operations & Maintenance	Overall
Option 1	●	●	●	●	●	●
Option 2	●	●	●	●	●	●
Option 3	●	●	●	●	●	●

Criteria:	Pedestrian Safety	Costs	Property Impacts & ROW	Traffic Calming	Operations & Maintenance	Overall
Weight	4	4	1	2	5	
Option 1	2	2	2	2	2	32
Option 2	3	3	3	3	3	48
Option 3	4	4	4	4	4	64



# Alternative Considerations & Rating Criteria

Criteria:	Pedestrian Safety	Costs	Property Impacts & ROW	Traffic Calming	Operations & Maintenance	Overall
Option 1						
Option 2						



# Alternative Considerations & Rating Criteria

- Transportation Modes
- Intersection Capacity & Operations
- Property Impacts
- Historic & Cultural Landmarks
- Right-of-Way Requirements
- Stormwater & Water Quality
- Speed & Traffic Calming
- Lighting & Utilities
- Operation & Maintenance
- Parking/Loading Areas
- Pedestrian Crossings & Visibility
- Costs





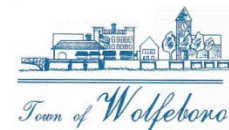
# Next Meeting





# Next PAC Meeting

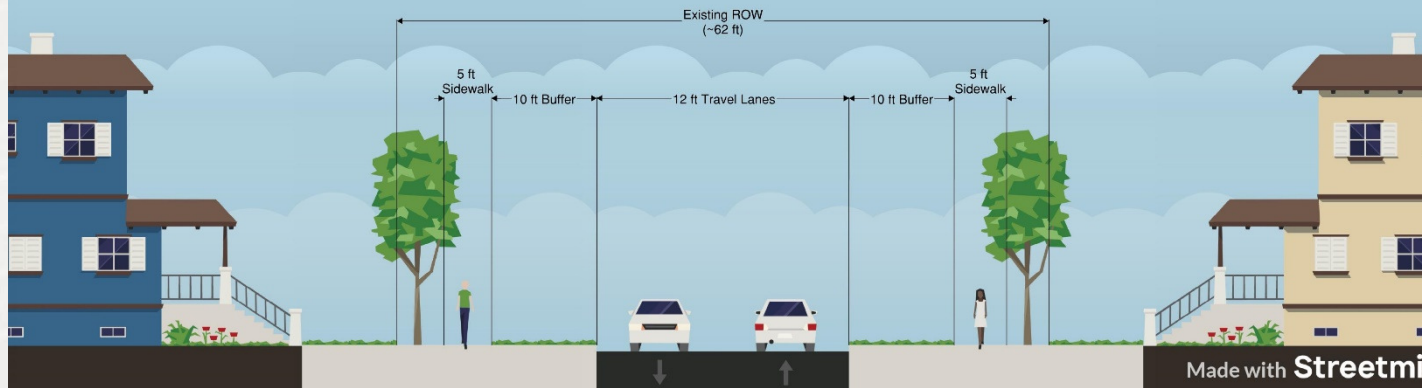
- Confirm P&N and Selection Criteria
- Introduce Design Consultant & Review Progress
- Prepare for October Public Informational Meeting





# Next PAC Meeting – Design

## NH 28, Pickering Corner to Crescent Lake Ave: Existing



## NH 28, Pickering Corner to Crescent Lake Ave: Proposed



# Schedule & Next Steps

	PUBLIC INVOLVEMENT	PROJECT DEVELOPMENT
2021	Project Advisory Committee Meetings & Public Informational Meetings	Research Environmental Resources & Design Constraints Develop & Evaluate Design Alternatives
2022	Project Advisory Committee Meetings Public Informational Meetings Neighborhood Stakeholder Meeting	Evaluate Environmental Impacts (wetlands, water quality, etc.) Present and Receive Feedback on Design Alternatives
2023	Public Hearing (January) Town Meeting (March)	Publish Environmental Study Non-participating Funding
2023-2024	PAC & Public Official Meetings (Project Updates, As Needed)	Final Design Right-of-Way Acquisitions / Easements Environmental Permitting
2025		Anticipated Start of Construction



# Contact Information

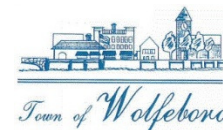
Jason Ayotte, PE,  
NHDOT Project Manager

- 603-271-3921
- Jason.M.Ayotte@dot.nh.gov

Rebecca Martin

NHDOT Sr. Environmental Manager

- 603-271-6781
- Rebecca.A.Martin@dot.nh.gov





Questions?